

# Heavy Duty Equipment Mechanic

- How to find the suitable size of starting motor cable?
  - By Current rating
  - By Voltage rating
  - By Resistance rating
  - By Capacitance rating
- Which logic gate having the circuit connected with switches in series?
  - OR gate
  - NOR gate
  - AND gate
  - NAND gate
- What are the combination of the gate is NAND gate?
  - OR and NOT gate
  - AND and OR gate
  - OR and NOR gate
  - AND and NOT gate
- Which nut have three projection to provide uniform contact on the surface?
  - Hexagonal nut
  - Cap nut
  - Hexagonal weld nut
  - Hexagonal nut with collar
- Which coolant used for sawing cast iron?
  - Water
  - Air
  - Kerosene
  - Soluble oil
- Which angle determine the rake angle at the edge of the twist drill?
  - Point angle
  - Clearance angle
  - Helix angle
  - Chisel edge angle
- What is the cutting angle of a standard drill?
  - 108 Degree
  - 118 Degree
  - 180 Degree
  - 188 Degree

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8. What is the name of the speed at which the drill cutting edge passes over the materials while drilling?
- A Cutting time                       B Cutting area  
 C Cutting feed                         D Cutting speed
9. Which locking device is used in the slotted nut?
- A Circlip                                 B Plain washer  
 C Split pin                                D Bolt and chuck nut
10. Which device is used in hydraulic brake system?
- A Air tank                                 B Master cylinder  
 C Pressure gauge                        D Un loader cylinder
11. Which type of pump used in the hydraulic jack?
- A Gear pump                               B Plunger pump  
 C Vane pump                               D Internal gear pump
12. Which act as a seal in the external gear pump?
- A Housing                                 B Drive gear  
 C Driver gear                              D Gear meshing
13. Technician A says that he seats radial tire beads by igniting a charge of ether inside the tire. Technician B says that he seats radial tire beads using a metal ring inflation aid. Who is correct?
- A Technician B only                     B neither  
 C both                                       D Technician A only
14. When a diode is in reverse bias, what is happening to current flow through it?
- A Only the positive sine wave passes through it.                       B Current is converted to AC.  
 C Current is blocked.                    D Current passes through it.

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1008. What is the disadvantage of liquid penetration testing?
- A Can be applied only on nonferrous materials
- B Large surface area measured with low cost
- C Low initial investment cost
- D Complex shapes can be inspected
1009. Which type of spring will have good load carrying capacity and do not have noise in the suspension system?
- A Mono leaf springs
- B Multiple - leaf spring
- C Coil spring
- D Fiber composite springs
1010. Which component increase the pressure in the hydraulic system?
- A Cylinder
- B Reservoir
- C Control valve
- D Oil pump
1011. Which type of clutch system used in the slave cylinder?
- A Vacuum clutch
- B Hydraulic clutch
- C Over running clutch
- D Electro magnetic clutch
1012. Which type of components can be tested by magnetic particle test?
- A Non-ferrous components
- B Ferrous components
- C Aluminum components
- D Plastic components
1013. Which valve is be opened to bring down the load in the hydraulic jack?
- A Relief valve
- B Shut off valve
- C Non - return valve-1
- D Non - return valve-2
1014. Which fastening device used to transmit the torque from the rotating shaft to wheel?
- A Key
- B Circlip
- C Washer
- D Wire lock

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1015. Which angle of drill prevent the friction of tool behind cutting edge?
- A Point angle                       B Rake angle  
 C Clearance angle                       D Helix angle
1016. Which type of drilling machine used to drill heavy and large work pieces?
- A Pillar drilling machine                       B Radial drilling machine  
 C Column drilling machine                       D Sensitive bench drilling machine
1017. Which is the case hardening process?
- A Tempering                       B Annealing  
 C Normalizing                       D Nitriding
1018. Which one is the heat treatment process?
- A Riveting                       B Soldering  
 C Normalizing                       D Welding
1019. Which is the quenching media of alloy steel in hardening process?
- A Oil                       B Compressed air  
 C Still air                       D Water
1020. What is the advantage of AC arc welding machine?
- A More initial cost                       B Freedom from arc blow  
 C Less maintenance cost                       D Un suitable for non ferrous metal
1021. Which gas cutting process is suitable for all position, location and under water?
- A Gas cutting                       B Plasma cutting  
 C Manual cutting                       D Machine cutting
1022. Which marking media used to mark in the finished surfaces?
- A White wash                       B Prussian blue  
 C Copper Sulphate                       D Cellulose lacquer